

TWO YEAR SCHEME OF WORK COVERAGE – DESIGN AND TECHNOLOGY	
Milestone Three - Upper Key Stage Two (Years 5 and 6)	
To master practical	Understand the importance of correct storage and handling of ingredients (using knowledge of micro-organisms)
skills	Measure accurately and calculate ratios of ingredients to scale up or down from a recipe
Food	Demonstrate a range of baking and cooking techniques
	Create and refine recipes, including ingredients, methods, cooking times and temperatures
To master practical	• Cut materials with precision and refine the finish with appropriate tools (such as sanding wood after cutting or a more precise scissor cut after roughly cutting
skills	out a shape)
Materials	• Show an understanding of the qualities of materials to choose appropriate tools to cut and shape (such as the nature of fabric may require sharper scissors than would be used to cut paper)
To master practical	Create objects (such as a cushion) that employ a seam allowance
skills	• Join textiles with a combination of stitching techniques (such as back stitch for seams and running stitch to attach decoration)
Textiles	• Use the qualities of materials to create suitable visual and tactile effects in the decoration of textiles (such as a soft decoration for comfort on a cushion)
To master practical	Create circuits using electronics kits that employ a number of components (such as LEDs, resistors, transistors and chips)
skills	
Electricals and	
electronics	
To master practical	Develop a range of practical skills to create products (such as cutting, drilling and screwing, nailing, gluing, filling and sanding)
skills	Develop a range of practical skins to create products (such as cutting, drining and screwing, finding, graing, finding)
Construction	
Construction	
To master practical	Convert rotary motion to linear using cams
skills	Use innovative combinations of electronics (or computing) and mechanics in product designs
Mechanics	
To master practical	Write code to control and monitor models or products
skills Computing	
To design, make,	Design with the user in mind, motivated by the service a product will offer (rather than simply for profit)
evaluate and improve	Make products through stages of prototypes, making continual refinements
	Ensure products have a high quality finish, using art skills where appropriate
	Use prototypes, cross-sectional diagrams and computer aided designs to represent designs
To take inspiration	Combine elements of design from a range of inspirational designers throughout history, giving reasons for choices
from design	Create innovative designs that improve upon existing products
throughout history	Evaluate the design of products so as to suggest improvements to the user experience